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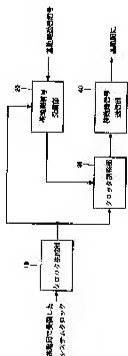
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(54) **DEVICE AND METHOD FOR EXTENDING SERVICE RADIUS IN MOBILE COMMUNICATION SYSTEM**

(57)Abstract:

PROBLEM TO BE SOLVED: To extend the service radius by successively adjusting a clock generated based on a signal obtained from a base station by a previously decided level, transmitting it to a transmission part and trying access when access to the base station is failed.

SOLUTION: A clock generation part 10 receives the system clock of a base station and generates a clock required for transmitting a mobile station signal. When a response signal from the base station cannot be received after an access signal is transmitted to the base station through a mobile station signal transmission part 40, a base station signal reception part 20 transmits the failure of access to a clock adjusting part 30. The clock adjusting part 30 adjusts the clock outputted from the clock generation part 10 by moving up by initial delay time which is previously decided and transmits it to the mobile station signal



transmission part 40. Thus, access is tried again at timing moved up by initial delay time compared to the previous system clock.